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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,398	10/16/2006	Young-Chan Moon	9290-2/NP	2630
	7590 11/20/200 CKEY, & PIERCE, P.I	EXAMINER		
7700 Bonhomme, Suite 400			ENTEZARI, MICHELLE M	
ST. LOUIS, MO 63105			ART UNIT	PAPER NUMBER
			2624	
			MAIL DATE	DELIVERY MODE
			11/20/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/583,398	MOON ET AL.				
Office Action Summary	Examiner	Art Unit				
	MICHELLE ENTEZARI	2624				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>16 Ju</u>	ne 2006					
	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	pante Quayre, 1000 c.a. 1., 10	0 0.0, 2.0,				
4) Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
Information Disclosure Statement(s) (PTO/SB/08) Notice of Informal Patent Application Paper No(s)/Mail Date All IDS considered Other:						

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings were received on June 16, 2006. These drawings are accepted.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Katoh et al. (US 6289125 B1).

Regarding claims 1 and 6, Katoh et al. disclose a method for scanning image using a scanning device (abstract), comprising: (a) determining a coordinate value of position

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for a surface having the image data of a scanned object thereon (coordinates of the bill on the glass, col. 2, lines 5-10; position coordinates stored in memory, col. 27, lines 60-68; positioning mark coordinates, col. 28, lines 5-15); (b) collecting the image data by matching the image data with the determined coordinate value of position for the surface (extract edges and coordinates, col. 2, lines 10-15; size and shape already known, reference coordinates and slope specify region to be extracted, col. 28, lines 5-20; matched against a reference, col. 38, lines 25-30; goodness of fit, col. 35, lines 25-35); and (c) synthesizing an entire image using the collected image data and the determined coordinate value of the position matched with the collected image data (extract an image, col. 2, lines 15-25; transform image data device has scanned, col. 4, lines 45-60; original RGB data sent, positioning marks and specified pattern converted to binary values, col. 28, lines 15-30).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeshima (US 4701805).

Regarding claims 1 and 6, Maeshima discloses a method and device for scanning image using a scanning device (abstract), comprising: (a) determining a coordinate value of position for a surface having the image data of a scanned object thereon (coordinates, col. 5, lines 35-50; col. 21, lines 20-30); (b) collecting the image data by matching the image data with the determined coordinate value of position for the surface (coordinate points correspond to points on the glass, image bearing face toward coordinate face, points indicated by coordinates, col. 5, lines 45-50; reference point SP on the glass, identifying size and position of the original, col. 21, lines 25-30); and (c) synthesizing an entire image using the collected image data and the determined coordinate value of the position matched with the collected image data (splice image data from 2 CCDs, abstract; scanning covers entire area of the glass, resulting image can be accommodated in the copy sheet, col. 21, lines 30-40).

Maeshima does not explicitly describe "matching" coordinates, however, as the template is placed on the image bearing face to be visualized, it would have been obvious at the time of the invention to one of ordinary skill in the art that this is done so matching of the coordinates to the image surface may be performed.

Regarding claims 2 and 7, Maeshima discloses the method and device of claims 1 and 6. Maeshima further discloses step (c) of synthesizing the entire image, information for positional movement of the scanning device in the direction of X and Y axes is

further used (image magnification or reduction is changed by variation of scanning speed, col. 12, lines 35-55; quantity of information supplied to the memories from the CCDs changes in accordance with the image magnification ratio, col. 14, lines 35-45; X indicates coordinates in the main scanning direction and Y indicates coordinates in the sub-scanning direction, col. 17, lines 5-10 and col. 21 lines 20-30).

Regarding claims 3 and 8, Maeshima discloses the method and device of claims 1 and 6. Maeshima further discloses the scanning device comprises an image scanning part for performing the function of scanning the image (image sensors, CCDs, abstract; write image signals into shift memory, CCD scanning, col. 14, lines 35-45), and a position detecting part for determining the coordinate value of the position for the surface (position of the original image detected, col. 6, lines 35-40; col. 7, lines 5-10; detecting coordinates of the position of the original, col. 10, lines 60-65; optical unit detects home position and leading end, col. 11, lines 5-10; three position sensors, col. 12, lines 1-10; logic circuit for detecting coordinates, col. 21, lines 40-60).

Regarding claims 4 and 9, Maeshima discloses the method and device of claims 1 and 6. Maeshima does not explicitly disclose steps (a) and (b) are performed simultaneously, however, as CPU executes data setting in the various counters of the image processing units 602, 602' and the image editing units 604, 604' prior to or during the original scanning operation (col. 11, lines 15-20), it would have been obvious at the

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time of the invention to one of ordinary skill in the art that these operations could be

performed simultaneously as indicated through use of a CPU.

Regarding claim 5, Maeshima discloses the method of claim 1. Maeshima does not

explicitly disclose between the step (b) and the step (c), (b1) storing the collected image

data matched with the coordinate value of the position for the surface. However, as

Maeshima discloses storing the image data (col. 10, lines 35-40) and that the number of

bits in the main scanning direction and the number of lines between transition points in

the sub-scanning direction are calculated from the coordinates of the trimming area and

the image magnification ratio are all stored in the RAM (col. 18, lines 5-20), it would

have been obvious at the time of the invention to one of ordinary skill in the art to store

the collected image data matched with the coordinate value of the position for the

surface.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

a. US 4303948

b. US 20030158701

c. US 5138670

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELLE ENTEZARI whose telephone number is (571)270-5084. The examiner can normally be reached on M-Th, 7:30am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vikkram Bali can be reached on (571)272-7415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michelle Entezari/ Examiner, Art Unit 2624

/VIKKRAM BALI/

Supervisory Patent Examiner, Art Unit 2624